Vol. XXIV. No. 46.

BOSTON, MASS., FRIDAY, FEBRUARY 10, 1905.

PRICE THREE CENTS.

RESEARCH LABORATORY.

Advanced Courses in Physical and Inorganic Chemistry.

The following courses will be given during the coming term at the times and places given below. Advanced students and members of the instructing staff are invited to attend the lecture courses and, provided they wish to become regular working members of the class, to take part in the seminar meetings.

Advanced Inorganic Chemistry. Weekly seminar conducted by Profs. H. P. Talbot and F. J. Moore. Mondays at 8 A.M. in Room 8, Eng. C, beginning February 13.

Advanced Theoretical Chemistry. Weekly seminar conducted by Prof. A. A. Noyes. Fridays at 8 A.M. in Room 18, Eng. C, beginning February 10. Nernst's Theoretische Chemie will be used as a basis of discussion. Pages 499-508 of the 4th edition should be read for the first exercise.

Radio-activity. Weekly seminar conducted by Prof. W. D. Coolidge. Wednesdays at 8 A.M. in Room 18, Eng. C, beginning February 15. Rutherford's book on Radio-activity will be used, sections 126-136 being discussed at the first meeting.

Photo-chemistry. Eight lectures by Prof. H. M. Goodwin, beginning at the middle of the term.

Constitution of Substances in Solution. Fifteen lectures in German by Dr. W. Bottger. Mondays at 4.30 P. M. beginning February 13.

Glass-blowing. Weekly laboratory exercises conducted by Mr. C. A. Kraus, meeting in two sections at 4.30 p.m. on Wednesdays and Thursdays, beginning February 8. The Friday section of last term will meet on Wednesdays, and the Monday section on Thursdays. In regard to individual changes which may be necessary, Mr. Kraus should be consulted. All available places are engaged at present.

Research Reports. Weekly colloquium conducted by Prof. A. A. Noyes and Mr. A. C. Melcher. Saturdays at 8 A.M. beginning February 18.

ATHLETIC NOTES.

Encouraging Showing Made in Trials for Meet To-morrow Night.

G. De W. Marcy, '05 has been substituted for G. H. Chapman, '07, in the 780 yard relay team because of the latter's inability to run.

All men who intend to try for the class Military Relay Teams, should report at the Gym immediately, to Coach Mahan for registration.

All 1907 men who intend to try for the relay team to run in the 40-yard military relay at the Indoor Meet, should be at the Gym, Tuesday, February 14, 1905 at 4 P.M., for the trials.

The Hockey schedule for the remainder of the season is as follows:

February 11, Andover, at Tech Rink. February 14, Franklin A. A. at Tech Rink. February 16, Brookline C. C. at Tech Rink. February 18, Newton Squash Club at Tech Rink.

It will relieve the minds of all Tech men to know that recently Jorge Lage of the Tech Fencing Team has returned to the Institute contrary to the announcement in the Boston Herald of Feb. 5, 1905, that he had entered Columbia. Lage registered Wednesday.

In the B. A. A. games Saturday evening Tech will run against Dartmouth in the 780 yard relay race and against Bowdoin in the 390 yard relay race. The teams are evenly matched and both races should prove extremely interesting.

The single entries for the B. A. A. are large this year and a good showing should be made by many of the men. The training was somewhat broken in upon by the mid-year vacation.

Tech 5, Harvard, '08, 2.

The Tech Hockey Team defeated the Harvard, '08, Hockey Team at the Tech Rink, Park Square, Wednesday afternoon. During the first period the Tech offense kept the puck in their opponents' territory most of the time, and scored 4 goals, while Harvard was able to score but once. In the second period

(Continued on page 4.)

LIST OF ENTRIES.

Men Who Will Represent Tech in the B. A. A. Meet.

The following Tech men are entered to compete in the Boston Athletic Association Indoor Meet, Saturday, February 11.

40-yard handicap. Gibbons, '06; Fisher, '06; Barrows, '07; Richards, '07; Noyes, '07; Weinz, '08; Todd, '08; Munoz-Zertuche, '08.

40-yard invitation. Lightner, '06; Richards, '07.

45-yard hurdles. Orington, '05; Haynes, '04; Emerson, '05; Farrington, '05; Albro, '07; Manson, '06; Noyes, '07.

440-yard novice. E. I. Williams, '08.

600-yard run. Willcomb, '06; Blackburn, '08; Edmonds, '08; Eaton, '07; Sheldon, '06.

1000-yard run. Howard, '06; L. Allen, '07; Moore, '07; H. E. Allen, '08.

Mile run. Marcy, '05; Ruggles, '06; Buckingham, '06; Beam, '06; Clapp, '06.

2-mile run. Lorenz, '05.

Putting shot. Lindsly, '05; Paquet, '05.

High jump. Farrington, '05.

Relay team, 390 yards. Thomas, '07; Eaton, '07; Gibbons, '06; Blackburn, '08; Williams, '06; Barrows, '07

Relay team, 780 yards. Wilson, '06; Tetlow, '07; Howe, '06; Marcy, '05; Howard, '06.

More Honors for Prexy.

President Pritchett will speak at a number of important meetings in other cities shortly. On February 15 he will address the Second General Session of the Religious Educational Association at Tremont Temple, Boston, on "The Ethical Education of Public Opinion."

On Washington's Birthday he will deliver an address on "Politics as a Profession" before the Union League Club of Chicago, at the Auditorium in that city. Dr. Pritchett will also deliver the Commencement Address to the graduating class of the University of Michigan, June 22.

Sophomores are reminded of the election of the *Technique* electorial committee at 1.00 p.m. today.

CALENDAR.

FRIDAY, FEBRUARY 10.

1.00 P.M. Sophmore Class Meeting. Election of Technique Electoral Committee.

1.00 P.M. Chicago Club meets in 11 Rogers.

4.00 P.M. Meeting of Mandolin Club, 31 Rogers.

SATURDAY, FEBRUARY 11.
2.00 P.M. Tech Hockey Team vs.
Andover. Rink not decided

Andover. Rink not decided upon.

Monday, February 13.

8.00 P.M. Basket Ball game at the Gym. Tech vs. Harvard.

FACULTY NOTICES.

Students are reminded that tuitions for the second term should be paid to-day.

Change of Room.

Fourth year — History of Chemistry. First exercise in 24 Walker, Monday, February 13, 9 to 10 A.M. F. J. MOORE.

Military Science.

All Battalion officers — both commissioned and non-commissioned — are expected to know the School of the Battalion for officers school next Wednesday. Meet at the Armory at 1.30 P.M. sharp.

General Convocation.

A General Convocation will be held on Tuesday, February 14, at 2 P.M. (sharp), to meet Dr. Henry Van Dyke of Princeton.

Exercises due at 2 will be postponed to 2.30.

Spanish I.

Mr. Lenz will meet students who wish to continue Spanish I during the second term in Room 21, Lowell, on Friday at 4 r.m. to register. None will be admitted who do not register at the above time and place.

NOTICES.

Lost. — Phi Sigma Kappa pin, name and address engraved on back. Reward if returned to Melville B. Hall.

Lost. — A bunch of keys, including a laboratory key numbered 159. Finder please leave at the Cage for R. E. Schirmer, '08.

Members of the Mechanical Engineering Society who have not as (Continued on page 3.)

The Tech

during the college year (from September to June), by students of the Massachusetts Institute of

Application pending for entry in the Boston Post-office as second-class mail matter.

Editorial Say,
OHARLES T. BARTLETT, 1996, Editor-in-Crase,
NAN LOMBARD, 1995, Managing Editor
Secretary J. Daniels, 1905 L. T. BUSHNELL, 1905 W. RANNEY, 1906

R. E. BELL, 1905

W. G. WALDO, 1906 A. H. DONNEWALD, 1907

News Staff.

J. M. BARKER, 1907. R. P. LOWE, 1907. E. F. WHITNEY, 1907.. J. M. W. F. DOLKE, 1908. J. M. FRANK, 1907.

Business Staff.

Donald G. Robbins, 1907, Business Manager F. A. Benham, 1906, Asst. Business Manager M. McLrop, 1907. Asst, Business Manager

Office: 30 Rogers Building, 491 Boylston Street

Contributions are requested from all under-graduates, alumni and officers of instruction. No anonymous manuscript can be accepted. All communications regarding subscrip-tions or advertisements, should be addressed to the Business Manager.

\$1.50 per year in advance. Single Copies 3 Cents.

In charge of this issue:

against Tech.

W.G. WALDO, 1906

Friday, February 10, 1905.

WILLIAM A. NICHOLS, PRINTER, 208 SUMMER ST., REAR

To those who enjoy an athletic contest of high standard, the B. A. A. meet tomorrow should prove no disappointment. Meet. To Tech men it should be particularly interesting on account of our strong list of individual entries, and because of the two team races. In the 390 yard relay with Bowdoin, Tech's chances are very favorable. The 780-yard race with Darmouth is

more doubtful because of the three fast half-mile men who are to run

At last the Hockey Team has accomplished something The Hockey worthy of commenda-Team. tion. In the recent games with preparatory and high schools the showing made has hardly done credit to a college team, but in defeating the Harvard Freshmen the men showed a gratifying improvement both in team work and in individual play. The fellows seemed to recognize the necessity of putting more energy into their work, and this together with the holiday practice has resulted in an encouraging improvement in form, Much still remains to be done to bring the work of the team up to collegiate standard, and with continued practice this should soon be accomplished.

"Old Letters" at Cage.

Lon Abbott, Robert Angus, C. M. Baker, Frank Baldwin, Visso E. Bird, H. K. Boutwell, H. D. Brandyce, Geo. Wm. Burpee, F. M. Blount, John H. Cady, Wm. J. Carpenter, Stephen Chase, Jos. E. Chandler, E. C. Chandler, J. H. Clapp, S. Coffin, Paul Critchlow, W. W. Dobson, Samuel Dana, Wm. Davidson, Hugh Dunn, Chas. Field, T. P. Gates, T. F. Geraghty, E. C. Goodwin, Harold Harvey, John Healey, Roy Heilman, Elmer Holbrook, W. A. Hotchkiss, Chas. Huntington, Francis H. Kales, John Lamb, Lewis Lawrence, Frank Logan, Waldo Lyons, P. F. Mann, Kenneth Major, Richard McKay, R. H. Morrill, R. D. Morrill, R. B. Morse, R. Oganio, J. B. Packard, Alec N. Penny, J. H. Polhemus, F. C. Reed, Wallace Rich, E. B. Rich, Geo. A. Ross, Harry Rowe, H. Siebrecht, A. G. Slocum, R. N. Soule, S. T. Strickland, Arthur Thomas, J. D. Varshnei, G. W. Welch, Mgr. Base Ball Team.

Freshmen and Sophomores!

Second competition for the News staff of The Tech now on. Consult any member of the Board or call at the News Bureau in Rogers Corridor between one and two o'clock for particulars.



Chocolate Bonbons.

"Name on Every Piece."

"A Word to the Wise is Sufficient." RETAIL STORE 416 Washington Street.

BOYLSTON

▼ATERING OMPANY

408 and 410 Boylston St. LUNCH COUNTER.

RESTAURANT and FANCY BAKERY,

ice Cream, Soda, Etc. Table d'Hote or a la Carte Dinners Catering for Spreads a Specialty

Long Distance Telephone 21740 Back Bay.

"THE GIRLS ARE FOND OF THESE"



Tech Emblems

Greatest Variety Lowest Prices

BENT & BUSH

15 SCHOOL ST.

BOSTON, MASS.



W. M. ROWAN

"THE TECH BARBER"

Westminster Hotel . . St. James Ave. SPECIAL TO STUDENTS SHAVE 15 CENTS

Fraternity Dins and Seals Steins and Medals

12 BEACON STREET,

FREDERICK T. WIDMER,

Successor Henry Guild & Son, 28 West St. Boston.

J. C. LITTLEFIELD.

Tailor and Outfitter.

I can offer you a larger and more complete assortment than can be seen elsewhere, and at lower prices for the same qualities. Look in and examine my prices before placing your order. Golf Breeches, Riding Breeches, and Dress Suits a Specialty.

DISCOUNT TO STUDENTS.

The Tech Pin

GEO. H. ELLIS CO

Printers

No. 272 CONGRESS STREET

Phone, 1549

BOSTON, MASS.





TAILOR.

58 WINTER STREET.



McMORROW College Shoes for College Men

238 Washington Street, Boston, Mass.

OPPOSITE YOUNG'S HOTEL

STONE & WEBSTER

Electrical Experts and Engineers

84 STATE ST., BOSTON, MASS.

GEORGE W. BROWN

Merchant Tailor

110 TREMONT STREET

Makes up-to-date students' clothes at very reasonable

Suits and Overcoats from \$35

This is the best time of the ENTIRE YEAR. for you to have your FULL DRESS, Tuxedo, or Double-Breasted Frock Suit made. We make a Specialty of these garments and make Special Prices during the slack season. Then again, we have an extra large assortment at this time, and the Tailors always make their work better when not rushed with work and we are willing to figure a little closer to keep our help busy. Step in and let us show them to you. And oblige Yours Respectfully,

BURKE & CO.

Tailors

843 Washington Street, Boston 1246 Massachusetts Avenue, Cambridge

That Totally Different Clothing for Men

INTRODUCTION SALE

Suits and Overcoats REDUCED PRICES

SMITH & SMULLEN CO.

381 Washington St., opp. Franklin



Hotel Lenox

Boylston and Exeter Streets Back Bay, BOSTON

ONE OF THE FINEST MODERN FIRE PROOF HOTELS IN THE COUNTRY, Two MINUTES' WALK FROM THE BACK BAY STATIONS, AND ONE BLOCK FROM COPLEY SQUARE

CHARLES A. GLEASON, Manager Send for illustrated booklet



NECKWEAR

From Messrs. Welch, Margetson & Co., London Also from the Best Paris Houses

Men's Shirts, Pajamas, Hoslery, Underwear, Blanket Wrappers, Storm Coats, Steamer Rugs, House Coats, Neckwear, Fancy Vests, Handkerchiefs, Sleeve Studs, Cravat Pins, Umbrellas, Ladies' Gloves and Hoisery, Wasts, Stocks

50 Cents to \$50.00

NOYES BROS.

During the Dull Season Our \$35.00 Suits for \$25.00 Our \$9.00 Trousers for \$7.00

A. H. MATZ & CO.,

Merchant Tailors

32 HUNTINGTON AVENUE

(Continued from page 1.) yet paid their dues should do so at once, in order that the Technique insert may be as complete as possi-

Members of Courses II and X, Class of 1907 are now eligible for membership in The Mechanical Engineering Society. Make application to J. H. Flynn, Jr., '05, Secretary.

Mandolin Club.

There will be an important meeting of the Mandolin Club this afternoon at 4 P.M. All members must attend. The first concert will be next Wednesday.

1907.

There will be an important class meeting Friday, February 10, at 1.00 P.M., in Huntington Hall. All 1907 men should attend.

Technique Electoral Committee to be elected.

Chicago Club.

There will be an important meet-

DURGIN, PARK & CO. Market Dining Rooms

30 North Market & 31 Clinton Streets BOSTON

OPEN FROM 5 A.M. TO 7 P.M.

ing of the Chicago Club to-day, (Friday, February 10), in 11 Rogers at I P.M. All men from Chicago or vicinity are requested to be present. Officers will be elected.

Junior Class Picture.

Members of the class of 1906 can see the class pictures and leave their orders in Rogers corridor on Monday, Tuesday or Wednesday of next week between 12 and 2. Price \$1.

Third Year - Course I.

Will the Third Year, Course I, Section 2 student who unintentionally removed a copy of "Compound Locomotives" from Room 11, Eng. B, Wednesday, February 8, please return the book to L. S. Smith, 13 Eng. B.

An Opportunity.

THE TECH has secured a limited number of Tech steins, two inches in height, and offers them to subscribers for fifteen cents, or to others for a quarter. Subscriptions will now be received for the second term at seventy-five cents.

Roston LEADING PHOTOGRAPHERS THE BRUNSWICK

Copley Square

Hote1

Huntington Ave. & Exeter St.

PATRONAGE of "Tech" students

solicited in our Cafe and Lunch Room

Banquet Committees of Dining Clubs, Societies, Lodges, etc., is

called to the fact that the Copley Square

Hotel has exceptionally good facilities for serving Breakfasts, Luncheons or Dinners and will cater especially to

Amos H. Whipple, Proprietor

this trade.

The attention of Secretaries and

Boylston and Clarendon Sts., BOSTON. (Adjoining Copley Square)



Conducted on both the American and European Plans.

AMOS BARNES, Proprietor. HERBERT H. BARNES, Manager.

Could You Go to the Klondike?

I WISH to communicate with young men that could accompany me next summer to the Klondike; I spent last summer there and own valuable interests: I can offer the opportunity of a lifetime to the right young men: they must furnish hest of references. be physically robust and not afraid of labor, and have some money to invest. Address HIRAM VROOMAN, 5 Park Square.

SPECIALISTS in SHIRTS to order, as well as all Men's Wear, such as Hosiery, Underwear, Tailor-made Suits, Rain Coats. etc., all at popular prices.

Laundry Called for and Delivered

KEEP MFG. CO.

Makers of Keep's Shirts 156 TREMONT STREET

COES NOUNG

20 SCHOOL STREET, BOSTON

MARK DOWN SALE

15 to 30 Per Cent Discount

Meadowbrook Restaurant &

24-26 Huntington Avenue **HUNTINGTON CHAMBERS**

NEAR COPLEY SQUARE

A "Tech-Nickle" Error!

IF YOU HAVE NOT RECEIVED ONE **COFFEE COUPONS**

OUR FLOOR-WALKER WILL REMEDY THE MISTAKE

39 TREMONT STREET

Near { Scollay Square The Tunnel

Over One Million Prescriptions. For 67 Years in One Place

We have a complete line of drugs, medicines, chemicals, acids, essential oils and fish oils, and we shall be pleased to quote close prices for large quantities.

We make a specialty of Mall Order Business and give special attention to all prescriptions by mail.

Boston is like a wheel. The spokes all lead

and give special attention to all prescriptions by mail.

Boston is like a wheel. The spokes all lead to the Hub, and nearly every street brings you to the congested centre, which is so near our store. Washington and Tremont Street here draw close together, and the population thickens to the square yard. It you are in the State House, Parker's, Court House, Young's, Kings Chapel, City Hall, Tremont Bldg., Park St. Church, Subway, Tunnel, Park, Beacon, Court or School Streets, or on your way to either the NORTH or SOUTH

or on your way to either the NORTH or SOUTH UNION STATION, you are very near to the most complete stock of Drugs and Pharmaceutical Supplies in Boston. A drug store for over half a century. The best place in the city to have Prescriptions accurately prepared from fresh, pure drugs of standard quality.

T. METCALE GO., BRANCH near Trinity Church, Massachusetts Museum, Public Library, New Old South, Pirst Church. Brunswick, Berkeley, Vendome, Back Bay Station.

CITY TRUST CO.

40 STATE STREET.

Capital and Surplus - -

PHILIP STOCKTON, President. C. F. ADAMS, 2d, Vice-President. GEORGE W. GRANT, Treasurer. GEORGE S. MUMFORD, Secretary. H. S. GREW, 2d, Asst.-Treasurer.

Your Deposit Account is Invited.



THE POPULAR PLACE

The Students' Drug Store

Under Copley Square Hotel 51 HUNTINGTON AVENUE E. G. BOSSOM, PROPRIETOR
We carry a full line of Drug Store Goods

YOU CAN OBTAIN FIRST-CLASS BOARD Saint Botolph Street

Fourteen Meals \$3.50

\$5.50 FOR \$5.00

We have inaugurated a commutation meal ticket especially for STUDENTS

REGULAR MEALS 20 c. and 25 c.

Table d'Hote for 35c. Served from 5.30 to 8 p.m.

TECHNOLOGY CHAMBERS DINING HALL

IRVINGTON and St. BOTOLPH STREETS.

American and European Plans.

AMERICAN PLAN 21 Meal Ticket \$5.00.

EUROPEAN PLAN-Discount Tickets \$3.25 for \$3. \ \$5.50 for \$5.

(Continued from page 1.) the Harvard Freshmen played a much better game, preventing Tech from scoring more than once, and scoring once themselves.

The line up:

TECH.

f. Ford, '08. f. Miller, '07 (Capt.) f. Coupal, '07. f. Weintz, '08. c. p. Dwight, '08. p. Tylee, '07. g. Sharp, '07.

HARVARD, '08.

f. Cambell (Mackey.) f. Rumsey. f. Lovering. f. Newhall (Capt.) c. p. Wagstaff. p. Burton. g. Carpenter.

Score: Tech 5; Harvard, '08, 2. Goals made by Coupal (3), Weintz, Dwight, Lovering, Mackey. Referee: Hill. Timer: Blake. Time: Twenty-minute halves.

After the game the Tech team elected A. Miller, '07, captain.

The next game scheduled is with Andover on Saturday, February 11. It is undecided at present whether the game will be played at the Tech Rink or in Andover as the ice at the Tech Rink is not in the best condition.

TO LET: Three warm, sunny rooms, 474 Massachusetts Avenue. One very large, two small.

Go to Hitchcock's

Huntington Avenue, corner West Newton Street . . . for

Drugs and Prescriptions

The New York Homœopathic Medical College

Most Complete Medical Course Largest Clinical Facilities (1200 Beds) Greatest Opportunity for Hospital Appointment

uncement address : Edward Gerry Tuttle, A.M., M.D. Se of West Fifty-first St., N. Y. City WilliamHarvey King M.D.,L.L.D. Dean

GARRISON HALL

Garrison and St. Botolph Sts.

AMERICAN AND EUROPEAN PLANS

CUISINE THE BEST

Special Low Rates to Students on Application

GEORGE R. HOWARD

Tech House.

One of the most unostentatious branches of student activity at the Institute, and one which is at the same time one of the most praiseworthy in its character is the organization known as Tech House. This is situated in one of the poorer parts of the city in the heart of a tenement district, and here about a dozen students of the Institute live for the purpose of becoming better acquainted with this phase of life and at the same time of benefiting some one else.

Tech House is doing a much needed work in this direction and it would be a benefit to the community if the idea could be extended. A student can derive great benefit from such an experience, for by this means a man is shown different industrial conditions, which in view of the present relations of capital and labor, may be of great value to him.

Theatre Attractions

CASTLE SQ .- "Held by the Enemy." COLONIAL,—"Letty."
OLOBE,—"The Burgomaster."
HOLLIS,—"Sunday." MAJESTIC .- ' he Shepherd King." PARK.—"Brother Jacques."
FREMONT.—"The Pillbusters."

HERRICK TICKETS & &

Copley Square

Telephone 2329, 2330 and 2331 Back Bay

Tupper's Restaurant and Lunch

ALWAYS OPEN

Cor. Columbus Ave. and Yarmouth St., Boston

WOODLAND AUBURNDALE, MASS.

45 minutes by electrics from M. I. T.
Rooms singly or en suite, with or without private baths.

Tennis, Golf, Canoeing; Superb Grounds and Admirable Culsine.

Banquets and Dinners a Specialty. An ideal stopping place for visitors to M.I.T.

FREDERICK WILKEY, Proprietor.

Send for Illustrated Booklet

Have You Any Conditions to Make Up?

Mathematics, German, French, English, taught in the most direct and thorough manner by masters in their profession.

Steinert Hall Preparatory School. 162 Boylston Street, Boston.

PAUL E. KUNZER, Ph.D., Languages. REST F. CURTIS, A.B., Mathematics. JAMES B. TAYLOR, A.M., English.

Balvin's Conservatory

Cor. Boylston and Fairfield Sts.

Decorations for Weddings and Receptions. Dinnertable and Ballroom decorations......

Plans and Estimates Furnished on Application.



A. S. ADAMS Maker of the Official M.I.T. Pin

106 Tremont St.,

Boston

C. F. HOVEY & CO.

Men's Furnishing Goods. Custom Made Shirts a Specialty.

33 Summer Street BOSTON.

WILLIAM A. NICHOLS

208 Summer Street, Boston

Ørinter

Book, Newspaper and Magazine Composition and Presswork Commercial and Society Printing

Telephone 1380 Main



Berkeley Hotel

BERKELEY AND BOYLSTON STREETS Burewean and American Plans

Restaurant à la Carte Dining Room table d'hots Gentlemen's Cafe and Billiard Room Entrance on Berkeley St.

JOHN A. SHERLOCK